SONY

HDR-XR500V

120GB[1] HDD High Definition Camcorder

The HDR-XR500V employs an advanced "Exmor R" CMOS sensor to capture stunning, 1920 x 1080 high definition video and 12 megapixel still images to its internal 120GB[1] hard disk drive. In addition, a built-in GPS receiver[7] Geo-tags your videos and photos.

- 1920 x 1080 high definition video recording:
  1920 x 1080 high definition resolution lets you record your memories in exceptional Sony® Full High Definition quality[2] .
- 12 megapixel still image capture:
  12 megapixel still image capture lets you take stunning, high resolution digital photos
- 120GB hard disk drive:
  A built-in 120GB[1] hard disk drive can record and store up to 48 hours of high definition video footage (HD LP mode), or up to 84 hours of standard definition footage (SD LP mode). In addition, "HDD Smart Protection" gives you peace of mind by helping to prevent any recorded video and images from being lost if the camcorder is accidentally dropped.
- 1/2.88" "Exmor R" CMOS image sensor with ClearVid™ array:
  A 1/2.88" Exmor R™ CMOS image sensor delivers bright, vivid, spectacularly detailed video footage, as well as 12 megapixel still images. With 6 megapixel (effective) video resolution, the image sensor actually captures video at four times the density of high definition resolution resulting in a sharper and more detailed 1920 x 1080 HD picture. In addition, "Exmor R" technology captures images with high resolution and high sensitivity, while the advanced Sony® BIONZ™ image processor improves camera response time and screens out noise to help ensure that the signal from each pixel is as pure as possible.
- Back-illuminated "Exmor R" CMOS sensor:
  Experience stunning low-light sensitivity with improved image clarity and drastically reduced grain with the newly developed, back-illuminated "Exmor R" sensor. Designed for compact cameras and camcorders, the "Exmor R" sensor relocates the photo diodes above the support circuitry, maximizing the light-gathering area per pixel so you can shoot with better results in lower lighting conditions. Approx. 2x increase in sensitivity compared to Sony's existing front-illuminated CMOS sensors at F2.0.
- Geotagging with built-in GPS receiver:
  A built-in GPS receiver[7] makes the HDR-XR500V an ideal choice for travelers. In addition to automatically adjusting your camcorder's clock to the proper time zone, the GPS receiver also gives you the ability to view your current location on the LCD map display, as well as "tag" your shooting locations. Tagged videos and still images can be reviewed and played back using the Map Index function on the camcorder or once downloaded to your PC using the supplied PMB (Picture Motion Browser) software[9] .
- Map Index function:
  Map Index uses the geotagging capabilities of the built-in GPS receiver [7] to "tag" your shot locations on a map in the camcorder, offering a new way to easily search and find a desired scene by location or view where a scene was captured.

ADDITIONAL FEATURES

- Face Detection technology for Video Footage and Digital Still Photos:
- Smile Shutter™ technology for still and dual capture:
- Optical SteadyShot™ image stabilization with Active Mode:
- 3.2" wide touch panel Xtra Fine LCD™ display[3] (921K pixels):
- Power On by opening LCD display:
- Highlight Playback:
- Professional-quality Sony® G Lens:
- 12X Optical / 150X Digital Zoom:
- Dedicated Mic and Headphone inputs:
- Dolby® Digital 5.1ch recording with Built-in Zoom Mic:
- Active Interface Shoe:
- Dual Record with 8.3MP still image capture:
- Includes Sony® PMB (Picture Motion Browser) software:
- Smooth Slow Record:
- Assignable Dial:
- Adjustable .27" Color Viewfinder[3] :
- Built-in Intelligent Flash:
- x.v. Color™ technology for superior color:
- HDMI™ connection:
- USB 2.0 interface:
- BIONZ™ Image Processor:
- Film Roll Index:
- Face Index function:
- Hybrid Recording to HDD or Memory Stick Duo™ media:
- One Touch Disc Burn:
- Record and zoom controls on LCD frame:
- BRAVIA® Sync™ technology:
- Auto Lens Cover:
- Dynamic Range Optimizer:

HANDYCAM

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Specifications

General

Imaging Device: 1/2.88""Exmor R" CMOS sensor
Pixel Gross: 6631K
Recording Media: 120GB Non-Removeable Hard Disk Drive
Memory Stick PRO Duo™ Media (Sold Separately)
Recording and Playback Times: 120GB HDD:
High Definition: FH = up to 870 min., HQ = up to 1770 min. SP = up to 2150 min., LP = up to 2870 min.
Standard Definition: HQ = up to 1770 min., SP = up to 2620 min., LP = up to 5020 min.
Video Actual: 4150K Pixels (16:9),3110K Pixels (4:3)
Still Actual: 4500K Pixels (16:9), 6000K Pixels (4:3)
Processor: BIONZ™ image processor
Video Resolution: 1920 x 1080
Still Picture Resolution: 12 megapixel

Audio

Recording Format: Dolby® Digital 5.1
Microphone: Built-in Zoom Microphone

Convenience

Accessory Shoe: Yes (Active Interface Shoe)
Memory Stick PRO™ Media Compatibility: Memory Stick PRO Duo™ Media (Sold Separately)
Still Image Mode(s): JPEG
Face Detection: Yes
Hybrid: Yes
Quick On: Power on by LCD
Dual Record: 8.3 megapixel
Dynamic Range Optimizer: Yes
Scene Mode(s): Auto, Twilight, Candle, Sunrise & Sunset, Fireworks, Landscape, Portrait, Spotlight, Beach, Snow
Image Stabilization: Optical SteadyShot® Image Stabilization
Smile Shutter™ technology: Yes

Convenience Features

Easy Operation: Yes
Multiple Language Display: Yes
Slide Show Mode: Yes
Low Light Capability: NightShot
Fader Effect(s): Black, White
Face Index: Yes
Film Roll Index: Yes
Photo Capture from Movie: Yes
x.v.Color™ : Yes
BRAVIA® Sync™ : Yes

Video

Format: HD: MPEG4 AVC/H.264; SD: MPEG2
Video Signal: HD: 1920x1080/60i; SD: NTSC color, EIA standards

Video Features

PhotoTV HD: Yes

Inputs and Outputs

Analog Audio/Video Output(s): Included (via A/V Remote Terminal)
Digital Audio/Video Output(s): HDMI
USB Port(s): Hi-speed (2.0 compliant)
Component Video (Y/Pb/Pr) Output(s): Supplied (via A/V Remote jack)
Headphone Jack: Yes
Microphone Input: Yes
S-Video Output(s): Sold separately (via A/V Remote jack)
HDMI™ Connection Output(s): Yes (mini)
Audio/Video Remote Terminal: Video / S Video / Audio / Component Out / Remote
Active Interface Shoe: Yes

Display

LCD Screen: 3.2" wide touch panel[3] LCD display (921k pixels)
Viewfinder: Wide (color 123k)

Hardware

Memory Stick slot: Memory Stick PRO Duo™ Media[1]
Manual / Auto Lens Cover: Auto
Assignable Dial: Yes
S/S & Zoom button on LCD: Yes
Light/Flash: Yes

Optics/Lens

35mm Equivalent: 43 - 516mm (16:9), 52 - 624mm (4:3)
Aperture: F1.8-3.4
Exposure: Yes (Touch Panel)
Filter Diameter: 37mm
Focal Distance: 5.5 - 66.0mm
Focus: Full range Auto / Manual (Touch Panel)
Shutter Speed: Scene Selection, 1/8-1/800; STD, 1/60-1/800
Optical Zoom: 12x
Digital Zoom: 150x
Resolution: 12 megapixel still
Lens Type: G Lens™
Minimum Illumination: STD, 11 lux (1/60 Shutter Speed);
LOW LUX, 3 lux
(Auto Slow Shutter ON, 1/30 Shutter Speed)

Power

Battery Type: InfoLITHIUM® with AccuPower™ Meter System (NP-FH60)
Power Requirements: 7.2V (battery pack); 8.4V (AC Adaptor)
Power Consumption (in Operation): 4.4W

Service and Warranty Information

Limited Warranty Term: Limited Warranty --- 1 Year Parts; 90 Days Labor

Software

Supplied Software: PMB Ver.4.2.00 Supported bt Windows 2000 Professional Service Pack4 (SP4), Windows XP Service Pack3 (SP3)(32bit) Windows Vista Service Pack1 (SP1) (32bit/64bit). Not supported by Mac OS.

Dimensions

Weight: w/o battery: 1lb 1oz (500g), w battery: 1lb 4oz (580g)
Measurements: 2 7/8 x 3 x 5 1/2 inch (71 x 75 x 137mm)

Supplied Accessories

AC adaptor (AC-L200)
Rechargable Battery Pack (NP-FH60)
Remote Commander (RMT-835)
Component A/V Cable
A/V Connecting Cable
Lithium Battery (CR2025)
Application Software / USB Driver / (CD-ROM)
USB Cable

Optional Accessories

Rechargeable InfoLITHIUM Batteries (NP-FH50/FH70/FH100)
Case (LCS-BBDB/R/L)
Starter Kit (ACC-ASH6, ACC-HDH6)
AC Adaptor/Charger for H series batteries (AC-VQH10)
Travel Charger (BC-TRP)
Wireless Microphone (ECM-HW2)
Wide Angle Conversion Lens (VCL-HGE07A)
HDMI Cable (mini) (VMC-30MHD)
Tripod (VCT-80AV)
Video Light (HVL-10NH)
Underwater Sports Pack (SPK-HCE)

UPC Code: 027242763067

1. 120GB equals 120 billion bytes, a portion of which is used for system management and/or application files. Available capacity is 118GB after deleting the 550MB demonstration video.
2. This camcorder captures high definition footage in the AVCHD format. DVD media containing AVCHD footage should not be used with DVD based players or recorders, as the DVD player/recorder may fail to eject the media and may erase its contents without warning. DVD media containing AVCHD footage must only be played back on a compatible Blu-ray Disc device, PC with supplied software or PLAYSTATION®3 devices.
3. Viewable area measured diagonally.
5. Requires BRAVIA Sync feature in each product, including a compatible BRAVIA® HDTV. Please refer to owner's manual to determine compatibility.
7. NAVTEQ map detail on the camcorder is limited in some areas. By using a compatible PC, a broadband Internet connection, and supplied Picture Motion Browser software, your photos and videos can be shown on an online map service. The online map service is currently provided courtesy of Google, and is subject to change or termination without notice.
9. Requires Microsoft Windows XP SP3/ Windows Vista SP1. Not supported by Mac OS.
10. Smooth Slow Record captures 3 seconds of video which play back over 12 seconds.
12. One Touch Disc Burn feature requires DVDirect burner or compatible PC with supplied PBM software (sold separately).

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